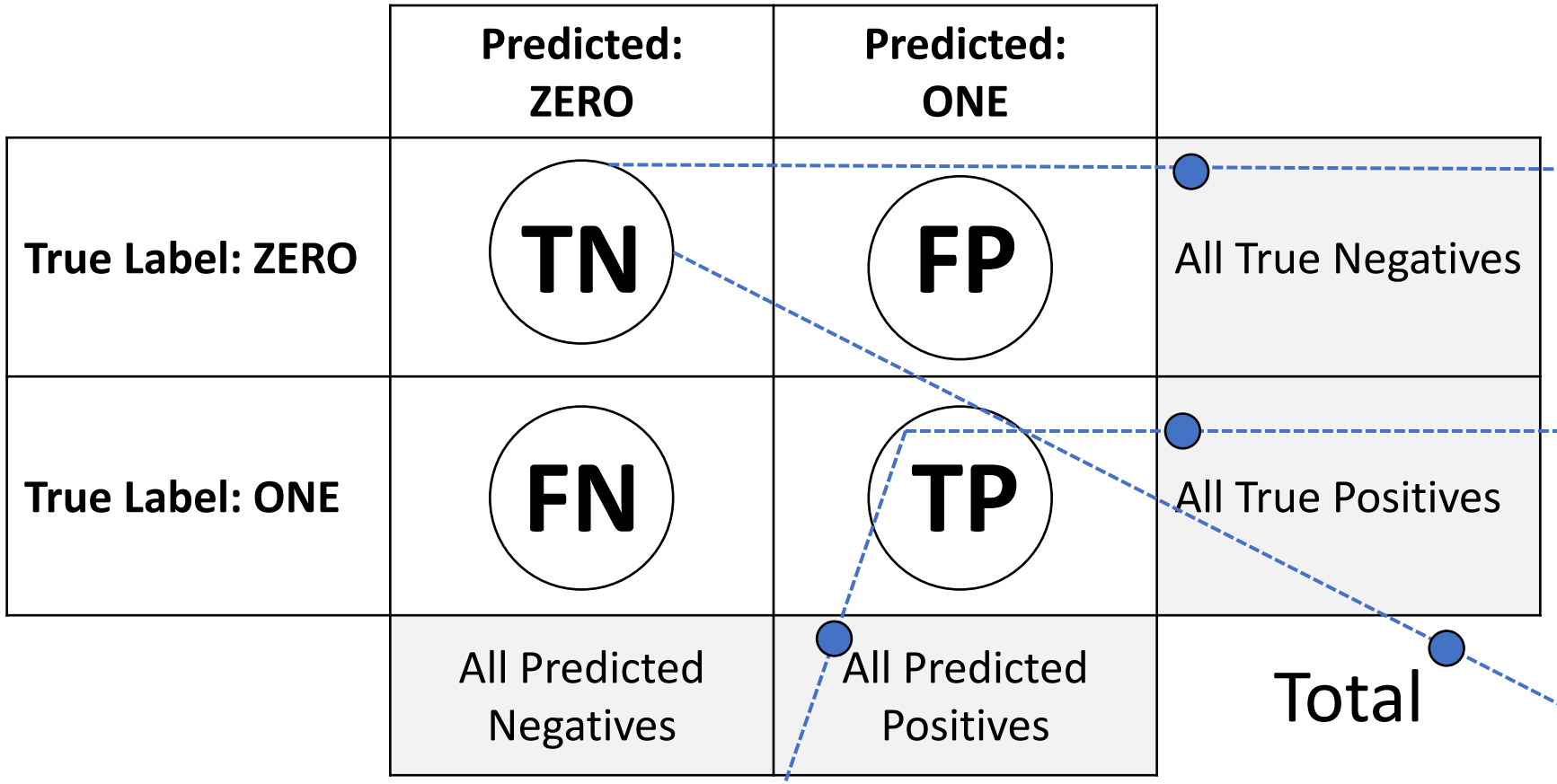

Specificity = $\frac{TN}{TN+FP}$

% of True Negatives detected correctly

Specificity is recall for Zero class

FPR= $\frac{FP}{TN+FP}$

False Positive Rate = 1 - Specificity

Recall = $\frac{TP}{TP+FN}$ = **Sensitivity**

% of True Positives detected correctly

a.k.a. True Positive Rate

Accuracy = $\frac{TN+TP}{Total}$

"All True of All"

Misclassification Rate = 1 - Accuracy

Precision = $\frac{TP}{FP+TP}$

How precisely can the model predict positives?

- Anti-Spam, Search Engine: optimize for Precision or Specificity
- Fraud, Cancer: optimize for Recall

Helpful

- ROC: Sensitivity vs False Positive Rate
- F1 Score $F1 = 2 * \frac{Precision * Recall}{Precision + Recall}$